

# FLEX in Risk Informed Decision Making (FRIDM) Task Force

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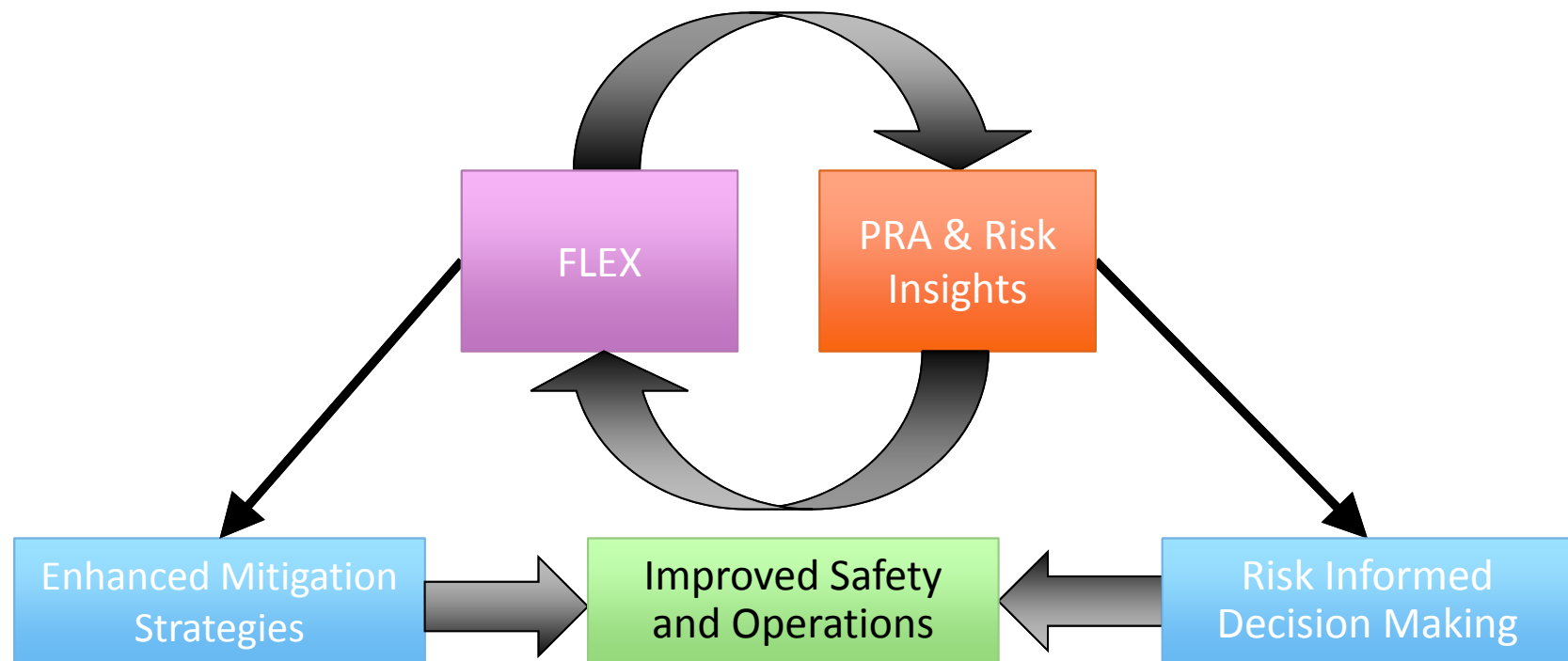
NRC Public Meeting on FLEX in Risk Informed Decision Making

October 9, 2015 • Three White Flint NRC Offices

# Maximizing the Safety Benefit of FLEX

- The industry has invested a considerable amount of resources to improve safety through FLEX
  - Currently designed to provide flexible mitigation options and safety benefit specific to beyond design basis events
- Opportunities exist to further leverage the equipment to realize full safety benefits of the investment
  - Additional uses result in direct safety benefit and inherent proficiency for use of equipment

# FLEX and Risk Insights



## Areas of Potential Safety Benefit

- NRC has accepted the option to use FLEX to manage outage risk
- Plants should also have the option to expand the use of FLEX to further manage plant risk
  - During normal plant operation
  - For additional accident scenarios
  - In Risk Informed Applications
- Enhance the focus of the Reactor Oversight Process (ROP)

# FLEX in Risk Informed Decision Making Task Force

- Leverage FLEX further to provide additional safety benefit and improve plant operations
  - Identify options to expand the benefit of FLEX
  - Provide guidance for plants to implement consistently
  - Provide guidance for plants to evaluate safety benefit in Risk Informed Decision Making
  - Limit unintended consequences and cumulative effects
  - Work with NRC to ensure effective implementation
- Develop options and guidance
  - Efficient process with NRC engagement
  - Prompt acceptance

# NRC Guidance Updates

- No significant change necessary to RIS 2008-15
  - Expand “mitigation strategies” so the RIS is applicable to additional portable equipment
  - Not limited to security orders
- No change to RG 1.200 applicability to license amendment requests
- Update other guidance documents as needs are identified

# Industry Methods for PRA Modeling

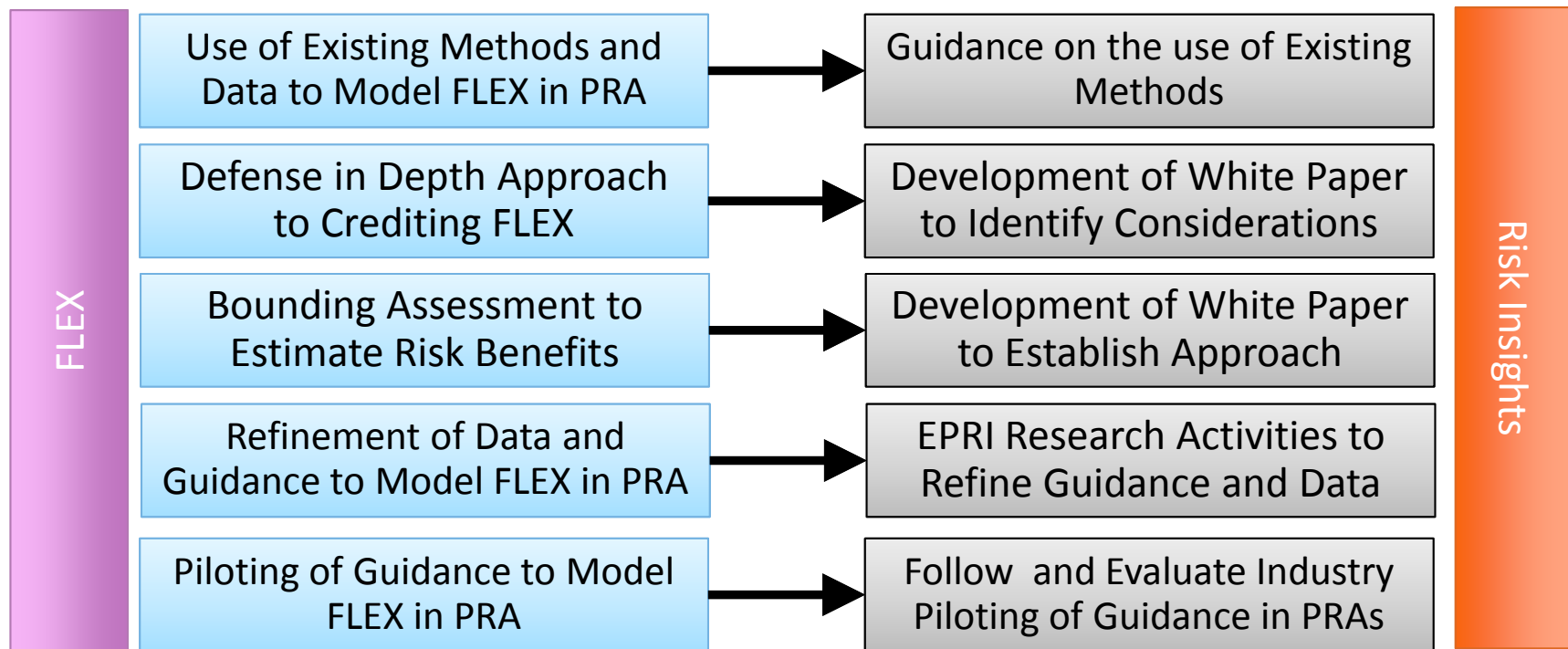
- No new methods are required to include FLEX in PRA models
- The industry has developed initial guidance on how to use these methods for FLEX components
- There are opportunities for further refinement and expansion of guidance
- Enhance data collection
- Establish bounding conditions for crediting

# Alternate Approaches to Crediting FLEX

- FLEX does not have to be modeled in PRAs to credit safety benefit in plant applications
  - Defense in depth considerations
  - Bounding assessments to estimate risk benefits
  - Compensatory actions



# Proposed FRIDM Task Force Activities



## Interactions between Industry and NRC

- Work through RISC processes for any formal agreements
- Work with NRC to identify needed considerations through public meetings

## Proposed Path Forward

- Approval from RISC on activities on October 20, 2015
- Establish key points of contact by November 13, 2015
- Schedule a public meeting the week of December 7, 2015
  - Identify deliverables and responsibilities
  - Develop meeting schedule
  - Develop proposed milestone schedule and deadlines